

Title (en)
PROTECTIVE HELMET AND METHOD OF MAKING SAME

Title (de)
SCHUTZHELM UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
CASQUE DE PROTECTION ET SON PROCEDE DE PRODUCTION

Publication
EP 1372422 A4 20050126 (EN)

Application
EP 02709708 A 20020227

Priority
• US 0205924 W 20020227
• US 27195301 P 20010228

Abstract (en)
[origin: US2002116749A1] A protective helmet includes: a shell, a headband with an absorbent brow pad, and a suspension. A key is secured to each end of each of the straps of the suspension for insertion into respective key sockets spaced about the periphery of the shell of the protective helmet along its lower edge. Of particular importance to the protective helmet of the present invention, many (if not all) of the keys are molded directly to and around a strap, rather than sewn to the strap. In the method of the present invention, lengths of strap material are positioned in a mold, and plastic is injected into the mold cavity to encapsulate the straps and form the plastic component, e.g., a key for the suspension of the protective helmet. A trimming die is used to trim any webbing scrap between parts or other extraneous materials resulting from the molding of the plastic component to the straps.

IPC 1-7
A42B 1/00

IPC 8 full level
A42B 3/14 (2006.01); **A42C 2/00** (2006.01); **B29C 37/02** (2006.01); **B29C 45/14** (2006.01)

CPC (source: EP US)
A42B 3/14 (2013.01 - EP US); **A42C 2/00** (2013.01 - EP US); **A42C 2/002** (2013.01 - EP US); **B29C 37/02** (2013.01 - EP US); **B29C 45/14426** (2013.01 - EP US)

Citation (search report)
See references of WO 02067709A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
US 2002116749 A1 20020829; **US 6609254 B2 20030826**; AU 2002244179 A1 20020912; CA 2437208 A1 20020906; EP 1372422 A2 20040102; EP 1372422 A4 20050126; MX PA03007608 A 20050307; WO 02067709 A2 20020906; WO 02067709 A3 20030410

DOCDB simple family (application)
US 8238902 A 20020225; AU 2002244179 A 20020227; CA 2437208 A 20020227; EP 02709708 A 20020227; MX PA03007608 A 20020227; US 0205924 W 20020227